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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,981	03/31/2004	Peter Krotky	028987.53097US	5984	
23911	7590 08/18/2004		EXAM	EXAMINER	
CROWELL & MORING LLP			ALI, H	ALI, HYDER	
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300		P	ART UNIT	PAPER NUMBER	
	ON, DC 20044-4300		3747		
			DATE MAILED: 08/18/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		10/812,981	KROTKY ET AL.			
		Examiner	Art Unit			
		HYDER ALI	3747			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on	_ •				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.				
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) ⊠ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,5 and 9 is/are rejected. 7) ⊠ Claim(s) 2-4,6-8 and 10-20 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9)[]	The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	• •	о П .,	DTO 440			
1) M Notic 2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date			
3) 🛛 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 3/31/04.	5) Notice of Informal Pa				

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DETAILED ACTION

Inventorship

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

In The Claims

Claims 5-8, "educt" should be "duct".

Claims 13-16, "cooing" should be "cooling".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,5 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Beer et al (US 6,427,642).

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As to Claim 1, Beer et al discloses cylinder head for a water-cooled multi-cylinder internal-combustion engine having two intake valves and outlet valves per cylinder, a cylinder head cooling chamber with inflow and outflow openings for the coolant, and a receiving opening for a spark plug, which receiving opening is arranged centrally relative to the cylinder head cooling chamber of a cylinder, wherein on an inflow side in the cylinder head cooling chamber, a main cooling flow runs between the two outlet valves in a direction of the receiving opening for the spark plug, while two secondary cooling flows are provided at two edge areas of the inflow side. See figure 2.

As to Claim 5, Beer et al discloses a cooling duct 26 is additionally provided on the inflow side which directly guides coolant to a hot spot in the cylinder head housing.

As to Claim 9, Beer et al discloses cylinder head for a water-cooled multi-cylinder internal combustion engine of the type having two outlet valves per cylinder, said cylinder head comprising: an ignition plug receiving opening 13, a pair of outlet valve accommodating recesses at one side of the receiving opening, and a cylinder head cooling chamber with inflow and outflow openings for a coolant, wherein said cooling chamber is configured to provide a main cooling flow between the outlet valve accommodating recesses and secondary cooling flows along lateral sides of the outlet valve accommodating recesses. See figure 2.

Allowable Subject Matter

Claims 2-4,6-8,10-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The reference by Krenn (US 6,681,727) discloses cylinder head for a plurality of cylinders.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HYDER ALI whose telephone number is (703) 308-3949. The examiner can normally be reached on M-F (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HENRY YUEN can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Tony M. Argenbright Primary Examiner Act I loit 3747